

p149

Jan. 8

$$13) -1\sqrt{169}$$

$$= (-1) 13$$

$$= -13$$

$$37) \sqrt{31}$$

$$= 5.\textcircled{5}67$$

$$= 5.6$$

$$39) \sqrt{62}$$

$$= 7.\textcircled{8}74$$

$$= 7.9$$

$$47) \sqrt{3} + \sqrt{7}$$

$$= \underbrace{1.7} + \underbrace{2.6}$$

$$= 4.37$$

$$= 4.4$$

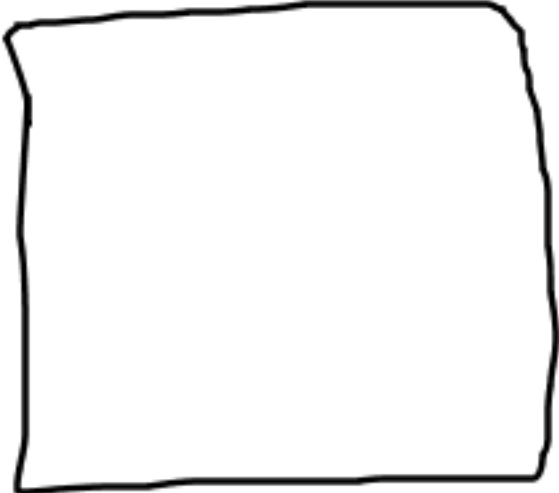
$$52) 2\sqrt{12} - 8$$

$$= \underbrace{2(3.464)} - 8$$

$$= 6.928 - 8$$

$$= -1.072$$

$$= -1.1$$

59) a)  $A = 25 \text{ cm}^2$

$$\sqrt{25} = 5$$

Adf $\square = 5 \times 5$ $5 = 5$

$$A = 5 \times 5$$

$$= 5 \times 5$$

$$= 25 \text{ cm}^2$$

$$\begin{aligned}
 (60) \ a) \quad & \sqrt{4a+2b} \\
 &= \sqrt{4(5)+2(-2)} \\
 &= \sqrt{20-4} \\
 &= \sqrt{16} \\
 &= 4
 \end{aligned}$$

$$a=5$$

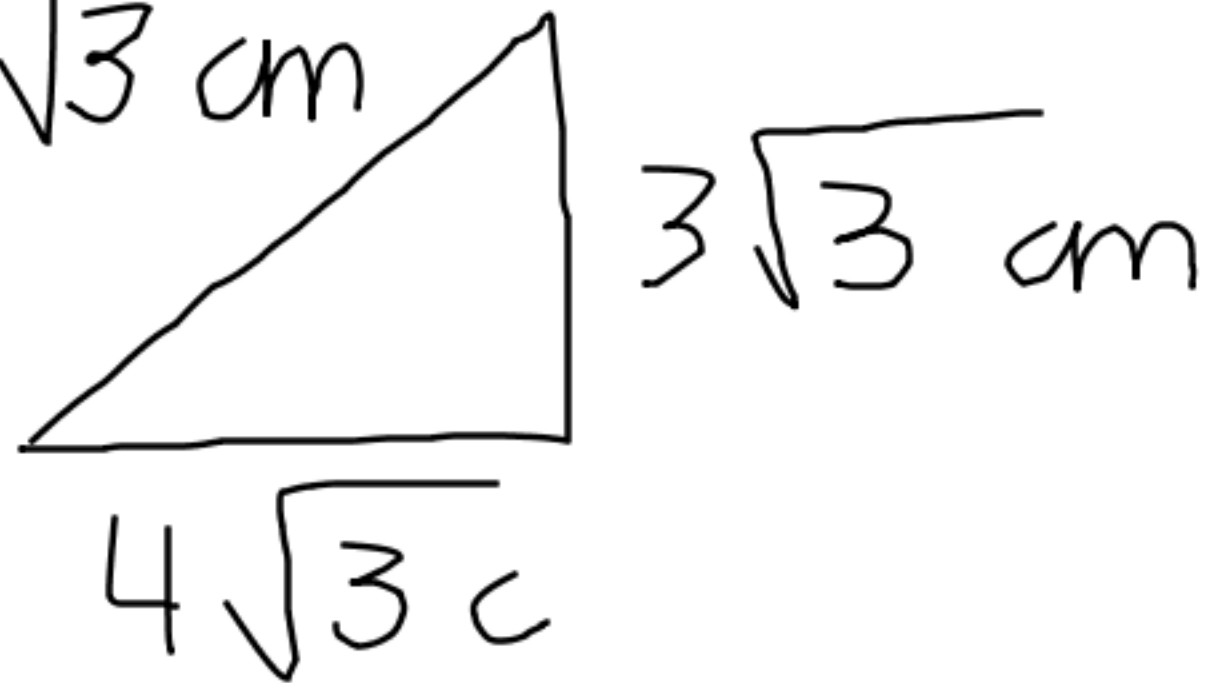
$$b=-2$$

sub into
equation

$$\begin{aligned}
 e) \quad & -\sqrt{(ab)^2} \\
 &= -\sqrt{[(5)(-2)]^2} \\
 &= -\sqrt{-10^2}
 \end{aligned}$$

$\rightarrow -\sqrt{100}$
 -10

b) a) $5\sqrt{3}$ cm

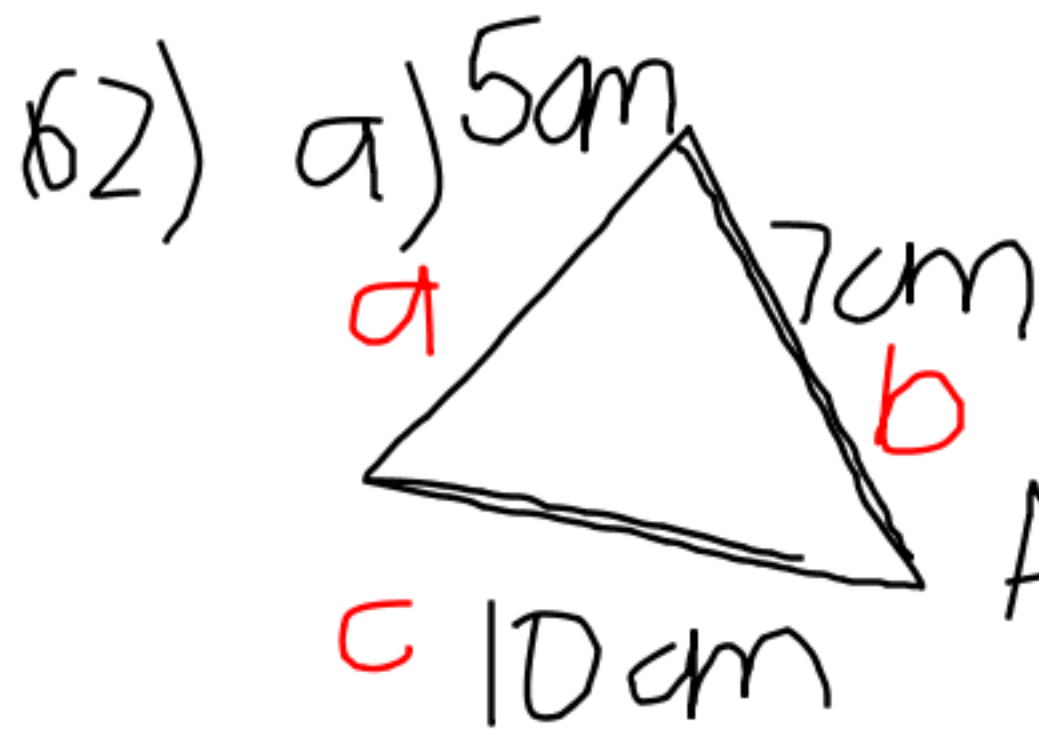


$$P = S + S + S$$

$$= \underbrace{5\sqrt{3}} + \underbrace{4\sqrt{3}} + \underbrace{3\sqrt{3}}$$

$$= 12\sqrt{3}$$

$$= 20.4 \quad \text{OR} \quad \begin{matrix} 20.78 \\ 20.8 \end{matrix}$$



THEN _____ it in

$$A = \sqrt{s(s-a)(s-b)(s-c)}$$

$$= \sqrt{11(11-5)(11-7)(11-10)}$$

FIRST

$$s = \frac{a+b+c}{2} = \frac{5+7+10}{2}$$

$$= \frac{22}{2}$$

$$= 11$$

$$s = 11$$

$$= \sqrt{264}$$

$$= 16.248$$

$$> 16.3 \text{ cm}^2$$

b3) 1 hectre = $10,000 \text{ m}^2$

a)

$A = 1 \text{ ha}$

$$A = 10,000 \text{ m}^2$$

$$S = \sqrt{10,000}$$

$$S = 100 \text{ m}$$

b) House area is 0.4 ha
What are its dimensions?

$$0.4 \times 10,000 \rightarrow S = 20 \text{ m}$$

$$A = 400 \text{ m}^2$$

$$S = \sqrt{400}$$

Homework

p 149

43-46, 48, 50, 54, 55, 59 df

60 b d g i, ~~62~~ c d